

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Perform A QPTR Calculation JPM No.: 2003 NRC A1a RO
K/A Reference: 039 A2.01 (3.2)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom X Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: The plant is at 100% power.

NIS power range channel N-41 is out of service.

Task Standard: Determines QPTR outside of TS limits and informs CRS/SM

Required Materials: SOP-RPC-005A, Rev 1
Calculator
Graph NI-1

General References: SOP-15.3 Rev 16

Handouts: Partially completed Attachment 1

Initiating Cue: The Shift manager has directed you to calculate QPTR manually using the given detector currents in accordance with the appropriate procedure

Time Critical Task: NO

Validation Time: 20 Minutes

(Denote Critical Steps with an asterisk)

Note: The purpose of this JPM is to have the candidate calculate QPTR and to correctly determine TS LCO being exceeded. The candidate will be provided an Attachment 1 with upper and lower NIS detector currents already filled out.

Performance Step: 1 Obtain SOP-RPC-005A. Refer to attachment 1 for manual calculation

Standard: Obtains procedure

Comment: **Cue: Hand candidate a copy of partially filled out Attachment 1**

Performance Step: 2 Record top and bottom detector currents

Standard: Refers to Attachment 1 for currents

Comment:

Performance Step: 3 Record date, time, and average reactor power

Standard: Records on Attachment 1

Comment:

* **Performance Step: 4** Divide each detector current output by corresponding normalization factor

Standard: Locates normalization factors and divides. Will only use 3 detectors, so denominator will be 3. '0' entered for channel OOS

Comment:

* **Performance Step: 5** Calculate average normalized ratio for top and bottom detectors

Standard: Performs calculation

Comment:

-
- * **Performance Step: 6** Calculate Quadrant Power Tilt for top and bottom detectors
Standard: Performs calculation

Comment:

- Performance Step: 7** Record Highest Quadrant Power Tilt Ratio
Standard: Records highest value

Comment:

- * **Performance Step: 8** Determine highest QPTR is >1.02. Immediately inform CRS/SM
Standard: Refer to Attachment 1 and determine that QPTR exceeds 1.02
Immediately inform CRS/SM

Comment:

- Terminating Cue:** When the candidate has determined QPTR and informed the CRS/SM, the evaluation for this JPM is complete

Job Performance Measure No.: IP3 2003 NRC A1a RO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is at 100% power.

NIS power range channel N-41 is out of service

INITIATING CUE:

The Shift manager has directed you to calculate QPTR manually using the given detector currents in accordance with the appropriate procedure

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Perform Control Room Log Entries JPM No.: 2003 NRC A1b RO
K/A Reference: 2.1.18 (2.9/3.0)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom _____ Simulator X Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: The surveillances for 1200 required by 3PT-D001 are partially completed

Task Standard: All corrective actions taken or in progress in accordance with 3PT-D001

Required Materials: 3PT-D001 Rev 7

General References: 3PT-D001 Rev 7

Handouts: 3PT-D001 Rev 7

Initiating Cue: Complete the remaining 3PT-D001 log entries required for 1200, located on pages 8 -11 of 13

Time Critical Task: NO

Validation Time: 15 minutes

(Denote Critical Steps with an asterisk)

NOTE: Candidate may identify deficiencies in any order.

- * **Performance Step: 1** Determines CST level is out of spec low
Standard: Circles reading and informs CRS/SM

Comment:

- * **Performance Step: 2** Determines Containment pressure PI-948A is out of spec high
Standard: Circles reading and informs CRS/SM

Comment:

- * **Performance Step: 3** Determines 31 SI Accumulator pressure is out of spec low
Standard: Circles reading and informs CRS/SM

Comment:

Terminating Cue: When logs are complete, the evaluation for this JPM is complete.

Job Performance Measure No.: IP3 2003 NRC A1b RO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: The surveillances for 1200 required by 3PT-D001 are partially completed

INITIATING CUE: Complete the remaining 3PT-D001 log entries required for 1200, located on pages 8 – 11 of 13

Appendix C		Job Performance Measure Worksheet		Form ES-C-1
Facility:	Indian Point Unit 3	Task No.:	N/A	
Task Title:	<u>Perform the RCS Leak Rate Surveillance</u>	JPM No.:	<u>2003 NRC A2 RO</u>	
K/A Reference:	2.2.12 (3.0)			
Examinee:		NRC Examiner:		
Facility Evaluator:		Date:		
<u>Method of testing:</u>				
Simulated Performance:		Actual Performance:	<u>X</u>	
Classroom	<u>X</u>	Simulator		Plant
READ TO THE EXAMINEE				
I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.				
Initial Conditions:	A manual RCS leak rate calculation was started 4 hours ago in accordance with SOP-RCS-004.			
Task Standard:	RCS leak rate is calculated correctly within +/- 0.1 GPM			
Required Materials:	SOP-RCS-004 Steam Tables Calculator			
General References:	SOP-RCS-004			
Handouts:	SOP-RCS-004 and partially completed attachment 1			
Initiating Cue:	Using the final values below, manually calculate RCS leak rate in accordance with SOP-RCS-004.			
Time Critical Task:	NO			
Validation Time:	20 Minutes			

(Denote Critical Steps with an asterisk)

Note: Hand candidate partially filled out copy of attachment 1 with initial data

Performance Step: 1 Record final data

Standard: Refer to cue sheet and place final data in appropriate blocks on attachment 1

Comment:

Performance Step: 2 Notify Chemist leakrate calculation data collection is complete

Standard: Call Chemistry by phone

Comment:

* **Performance Step: 3** Calculate difference between initial and final data (Keeping + and – signs with values)

Standard: Performs calculations

Comment:

Performance Step: 4 Perform PRZR level conversion factor calculation on attachment 2

Standard: Refer to attachment 2 and enter data based upon current PRZR temperature. Records calculated value in appropriate block

Comment:

Performance Step: 5 Perform RCS temperature conversion factor calculation on attachment 2

Standard: Refer to attachment 2 and enter data based on RCS Tavg. Records value in appropriate block

Comment:

Performance Step: 6	Calculate corrected values base on conversion factor
Standard:	Performs calculation
Comment:	
* Performance Step: 7	Calculate total leakage in gallons by adding corrected value column
Standard:	Performs calculation
Comment:	
* Performance Step: 8	Calculate RCS leakrate by dividing total leakage by elapsed time
Standard:	Performs calculation. Arrives at value within 0.1 GPM of value on answer sheet.
Comment:	
Performance Step: 9	Complete attachment 3, RCS Leakage Review and Approval
Standard:	Completes attachment 3, determines Unidentified leakage less than 0.9 GPM
Comment:	
Terminating Cue:	When RCS leak rate calculation is complete, the evaluation for this JPM is complete

Job Performance Measure No.: IP3 2003 NRC A2 RO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: A manual RCS leak rate calculation was started 4 hours ago in accordance with SOP-RCS-004.

INITIATING CUE: Using the final values below, manually calculate RCS leak rate in accordance with SOP-RCS-004.

Final Values:

- Time 4 hours from start
- PRZR liquid temp 650°F
- Boric Acid Integrator 100 gallons
- Primary Water Integrator 450 gallons
- VCT Level 24%
- Avg PRZR level 50%
- RCS Tavg NR RTD 569°F

Last Identified leak rate from 3 days ago per SOP-RCS-005 is 1.7 GPM

Facility: Indian Point Unit 3 Task No.: N/A

Task Title: Determine Appropriate RWP And
Take Action For High Area
Radiation Alarm. JPM No.: 2003 NRC A3 RO

K/A Reference: 2.3.2 (2.5)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X

Classroom _____ Simulator _____ Plant X

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: You have been directed to peer check the alignment of City Water to the Charging Pumps

Task Standard: Correct RWP used to perform task and actions to minimize exposure are taken

Required Materials: RWP
Alarming dosimeter

General References: Radiation Protection plan

Handouts: None

Initiating Cue: Enter the RCA using the correct RWP to perform the task

Time Critical Task: NO

Validation Time: 5 Minutes

(Denote Critical Steps with an asterisk)

NOTE: This JPM is intended to be performed in conjunction with the JPM performed in the RCA. Once the RWP is identified, suspend this JPM until the RCA task is complete, then continue with this JPM

- | | |
|---|---|
| <p>* Performance Step: 1</p> <p>Standard:</p>
<p>Comment:</p> | <p>Identify RWP required for RCA entry</p> <p>Identifies correct RWP #033002 Task #2</p>
<p>NOTE: Suspend this task when RCA entry is made. When task is complete, cue the candidate that his/her alarming dosimeter is beeping</p> |
| <p>* Performance Step: 2</p> <p>Standard:</p>
<p>Comment:</p> | <p>Verify dosimeter alarm condition</p> <p>Checks dosimeter to check dose and dose rate</p>
<p>Cue: Inform candidate that dose rate indicates 200 mr/hour</p> |
| <p>* Performance Step: 3</p> <p>Standard:</p>
<p>Comment:</p> | <p>Leave the area. Contact HP</p> <p>Leaves to a lower dose area. Contacts HP for guidance</p>
<p></p> |
| <p>Terminating Cue:</p> | <p>When the candidate leaves the area of high radiation and informs HP, the evaluation for this JPM is complete</p> |

Job Performance Measure No.: IP3 2003 NRC A3 RO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: You have been directed to peer check the alignment of City Water to the Charging Pumps

INITIATING CUE: Enter the RCA using the correct RWP to perform the task

Info only for training

Indian Point 3 RADIOLOGICAL WORK PERMIT # 033002 Rev: 01

RWP Title: OPERATIONS-ROUTINE				NRC Code: ROS		Requesting Department: OPERATIONS	
Job Location: All Radiologically Controlled Areas including VC when the Rx is shut down.				RWP Type: Routine		Start Date: 01/01/03	Close Date: 12/31/03
Job Description: Routine Operations activities including surveillance, tests and inspections by operators, managers and operational and technical support personnel.							
Radiological Conditions	Current				Anticipated		
	General Area		Maximum		General Area		Maximum
γ Dose Rate (mrem/h)							
β Dose Rate (mrem/h)							
N Dose Rate (mrem/h)							
Contamination (dpm/100cm ²)	β/γ	α	β/γ	α	β/γ	α	β/γ α
Airborne (μ C/ml)	P	I	P	I	P	I	P I
General Requirements							
Pre-job Briefing: NOT Required				Post Job Review: NOT Required			
Task Requirements							
<p>1 WATCH NPO-LOGS AND ROUNDS RP Coverage: Positive Control, Training: RWT-RADIATION WORKER TRAINING, Dosimetry: ED / WB TLD, Clothing: CA entry -Full PCs, Contamination Control: CA exit reqrs hand/foot frisk / CA tool removal reqrs HP / Contain all liquids / HP reqd for Contam sys opening / Ovhd work reqrs HP approval, Exposure Control: No Entry > 0.3 DAC Airborn Act / No Entry >200mR/hr WB doserate / No Entry >50k dpm/100cm² GA, Dose Alarm: 50, Rate Alarm: 200, Stay Time: 18:00, Chirp Rate: 1 mrem</p> <p>2 COL'S, PTO'S, CTO'S, WALKDOWNS, FIN NPO'S AND PEERCHECKING RP Coverage: Positive Control, Training: RWT-RADIATION WORKER TRAINING, Dosimetry: ED / WB TLD, Clothing: CA entry -Full PCs, Contamination Control: CA exit reqrs hand/foot frisk / CA tool removal reqrs HP / Contain all liquids / HP reqd for Contam sys opening / Ovhd work reqrs HP approval, Exposure Control: No Entry > 0.3 DAC Airborn Act / No Entry >50k dpm/100cm² GA, Dose Alarm: 50, Rate Alarm: 200, Stay Time: 18:00, Chirp Rate: 1 mrem</p> <p>3 LHRA RP Coverage: Constant Coverage, Training: RWT-RADIATION WORKER TRAINING, Dosimetry: ED / WB TLD, Clothing: CA entry -Full PCs, Contamination Control: CA exit reqrs hand/foot frisk / CA tool removal reqrs HP / Contain all liquids / HP reqd for Contam sys opening, Exposure Control: LHRA entry - HP cnstnt cvrage / No Entry > 0.3 DAC Airborn Act / No Entry >50k dpm/100cm² GA, Dose Alarm: 50, Rate Alarm: 200, Stay Time: 18:00, Chirp Rate: 1 mrem</p> <p>4 FUNCTIONS TESTS RP Coverage: Positive Control, Training: RWT-RADIATION WORKER TRAINING, Dosimetry: ED / WB TLD, Clothing: CA entry -Full PCs, Contamination Control: CA exit reqrs hand/foot frisk / CA tool removal reqrs HP / Contain all liquids / HP reqd for Contam sys opening / Ovhd work reqrs HP approval, Exposure Control: No Entry > 0.3 DAC Airborn Act / No Entry >200mR/hr WB doserate / No Entry >50k dpm/100cm² GA, Dose Alarm: 50, Rate Alarm: 200, Stay Time: 18:00, Chirp Rate: 1 mrem</p> <p>5 TRAINING/TOURS RP Coverage: Positive Control, Training: RWT-RADIATION WORKER TRAINING, Dosimetry: ED / WB TLD, Clothing: CA entry -Full PCs, Contamination Control: CA exit reqrs hand/foot frisk / CA tool removal reqrs HP / HP reqd for Contam sys opening / Ovhd work reqrs HP approval, Exposure Control: No Entry > 0.3 DAC Airborn Act / No Entry >200mR/hr WB doserate / No Entry >50k dpm/100cm² GA, Dose Alarm: 5, Rate Alarm: 25, Stay Time: 18:00, Chirp Rate: 1 mrem</p>							
Worker Special Instructions							
High Radiation Area entry by Non LSM personnel requires notification to the field HP technician. . . Notify Watch HP prior to start of non routine work, contaminated system opening and/or activities with the potential for raising contamination or airborne activity. No enter into Airborne Radioactivity Areas without HP approval. CA entry with only rubber gloves over liners and overshoes allowed only if ALL of the following are met: General contamination levels are <10,000 dpm/100cm ² ; No climbing on equipment or in the overhead; No evolutions with the potential for raising levels of contamination.							
RP Special Instructions							
Provide positive HP control and dose rate verification at least every 4 hours for non-LSM personnel entering a High Radiation Area. LHRA entry requires HP to brief the worker of the Dose Rate levels in the immediate work area, using the most recent survey data available							
Memos							
HP supervision permission required to exceed dose rate or contamination limits of this RWP. requirements based on radiological conditions.						HP may add/relax PC	
RP Technician: WILSON, ROBERT				RP Supervisor: STEWART, JEFFERY			

Info only for training

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Emergency Plan Questions JPM No.: 2003 NRC A4 RO
K/A Reference: 2.4.29 (2.6)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom X Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: N/A

Task Standard: Two questions answered 80% correctly

Required Materials: E-Plan Implementing Procedures

General References: E-Plan Implementing Procedures

Handouts: N/A

Initiating Cue: N/A

Time Critical Task: NO

Validation Time: 10 Minutes

ANSWER KEY**NRC RO ADMIN A.4 QUESTION 1 (NO Reference allowed)**

You are the 3rd RO assigned to the watch, doing procedure walkdowns.

A Site Area Emergency has been declared at Indian Point. Site accountability is required.

Where are you required to report?

ANSWER:

The Central Control Room

REFERENCE:

IP 2001 Attachment 5.3

ANSWER KEY**NRC RO ADMIN A.4 QUESTION 2 (CLOSED Reference)**

A Site Area Emergency has been declared at Indian Point.

List 5 of the Emergency Response Facilities that are staffed as a result of this event.

ANSWER:

- Central Control Room (CCR)
- Technical Support Center (TSC)
- Operations Support Center (OSC)
- Emergency Operations Facility (EOF)
- Alternate EOF (AEOF)
- Joint News Center

20% each for each correct answer to a maximum of 100%

REFERENCE:

E-Plan

NRC RO ADMIN A4 QUESTION 1**(Closed Reference)**

You are the 3rd RO assigned to the watch, doing procedure walkdowns.

A Site Area Emergency has been declared at Indian Point. Site accountability is required.

Where are you required to report?

NRC RO ADMIN A4 QUESTION 2**(Closed Reference)**

A Site Area Emergency has been declared at Indian Point.

List 5 of the Emergency Response Facilities that are staffed as a result of this event.

Job Performance Measure No.: IP3 2003 NRC A4 RO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

Facility: Indian Point Unit 3 Task No.: N/A

Task Title: Perform A QPTR Calculation And Direct Appropriate Actions JPM No.: 2003 NRC A1a SRO

K/A Reference: 039 A2.01 (3.2)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X

Classroom X Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: The plant is at 100% power.

NIS power range channel N-41 is out of service.

Task Standard: Determines QPTR outside of TS limits and initiates corrective action IAW Technical Specifications

Required Materials: SOP-RPC-005A, Rev 1
Calculator

General References: SOP-15.3 Rev 16

Handouts: Partially completed Attachment 1

Initiating Cue: The Shift manager has directed you to calculate QPTR manually using the given detector currents in accordance with the appropriate procedure, determine if the calculated values meet Technical Specification limits, and any appropriate actions to take, if necessary

Time Critical Task: NO

Validation Time: 20 Minutes

(Denote Critical Steps with an asterisk)

Note: The purpose of this JPM is to have the candidate calculate QPTR and to correctly apply the TS actions. The candidate will be provided an Attachment 1 with upper and lower NIS detector currents already filled out.

Performance Step: 1 Obtain SOP-RPC-005A. Refer to attachment 1 for manual calculation

Standard: Obtains procedure

Comment: **Cue: Hand candidate a copy of partially filled out Attachment 1**

Performance Step: 2 Record top and bottom detector currents

Standard: Refers to Attachment 1 for currents

Comment:

Performance Step: 3 Record date, time, and average reactor power

Standard: Records on Attachment 1

Comment:

* **Performance Step: 4** Divide each detector current output by corresponding normalization factor

Standard: Locates normalization factors and divides. Will only use 3 detectors, so denominator will be 3. '0' entered for channel OOS

Comment:

* **Performance Step: 5** Calculate average normalized ratio for top and bottom detectors

Standard: Performs calculation

Comment:

-
- * **Performance Step: 6** Calculate Quadrant Power Tilt for top and bottom detectors
Standard: Performs calculation

Comment:
- Performance Step: 7** Record Highest Quadrant Power Tilt Ratio
Standard: Records highest value

Comment:
- * **Performance Step: 8** Determine highest QPTR is >1.02. Determine requirements of TS 3.2.4 are NOT met
Standard: Refer to TS 3.2.4 and determine that QPTR exceeds 1.02 and determine that a power reduction is necessary, 3% power for each 1% deviation over 1.0 within 2 hours

Comment:
- Terminating Cue:** When the candidate has determined appropriate action per TS, the evaluation for this JPM is complete

Job Performance Measure No.: IP3 2003 NRC A1a SRO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is at 100% power.

NIS power range channel N-41 is out of service

INITIATING CUE:

The Shift manager has directed you to calculate QPTR manually using the given detector currents in accordance with the appropriate procedure, determine if the calculated values meet Technical Specification limits, and any appropriate actions to take, if necessary

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Review Control Room Log Entries JPM No.: 2003 NRC A1b SRO
K/A Reference: 2.1.18 (3.0)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom X Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: The surveillances required by 3PT-D001 are complete for 1200

Task Standard: All corrective actions taken or in progress in accordance with 3PT-D001

Required Materials: 3PT-D001 Rev 7

General References: 3PT-D001 Rev 7

Handouts: 3PT-D001 Rev 7

Initiating Cue: Review the log entries taken at 1200 for approval

Time Critical Task: NO

Validation Time: 15 minutes

(Denote Critical Steps with an asterisk)

NOTE: Candidate may identify deficiencies in any order.

- * **Performance Step: 1** Determines CST level is out of spec low
- Standard:** Refer to TS SR 3.7.6.1. Determine TS minimum is met. Action to commence filling. Document by circling NO in section 7.1 of procedure (Any step of this JPM)
- Comment:**
-
- * **Performance Step: 2** Determines Containment Average Air temperature is out of spec high
- Standard:** Refers to TS 3.6.5 and commence action to restore
Starts Containment FCU or raise service water flow
- Comment:**
-
- * **Performance Step: 3** Determines 31 SI Accumulator pressure is out of spec low
- Standard:** Refers to TS 3.5.1 and commences action to restore pressure
Enters the action statement of TS 3.5.1
- Comment:** **NOTE: Containment Air Temperature and CST level are out of spec but not inoperable per TS. 31 Accumulator is inoperable per TS**
-
- Terminating Cue:** When log review is complete, the evaluation for this JPM is complete.

Job Performance Measure No.: IP3 2003 NRC A1b SRO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: The surveillances required by 3PT-D001 are complete for 1200

INITIATING CUE: Review the log entries taken at 1200 for approval

Appendix C	Job Performance Measure Worksheet	Form ES-C-1
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Facility: Indian Point Unit 3 Task No.: N/A

Task Title: Review (For Approval) A Completed Surveillance JPM No.: 2003 NRC A2 SRO

K/A Reference: 2.2.12 (3.4)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X

Classroom X Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: The Plant is at 100% power. All equipment in service.

The Essential Service Water Header is 1, 2, 3

3PT-Q092A, 31 Service Water Pump Train Operational Test, was performed on your shift.

Task Standard: Deficiency identified and TS action

Required Materials: 3PT-Q092A Rev 9

General References: 3PT-Q092A Rev 9

Handouts: 3PT-Q092A Rev 9

Initiating Cue: You have been directed by the Shift Manager to perform acceptance criteria review and approval per sections 6.0 and 7.0 of 3PT-Q092A

Time Critical Task: No

Validation Time: 15 minutes

(Denote Critical Steps with an asterisk)

Performance Step: 1 Reviews acceptance criteria
Standard: Checks section

Comment:

* **Performance Step: 2** Determines acceptance criteria for pump flow and DP is not met
Standard: Attachment 4; 81 PSID for 3700 GPM is **low**

Comment:

* **Performance Step: 3** Determines action required
Standard: Step 7.2.4 requires action for IST surveillance failure – 31 SWP
 o Notify CRS (Since he/she is acting as CRS, may just note that CRS/SM is required)
 o Initiate a PID and a DER
 o Take applicable action in accordance with TS 3.7.9

Comment: **Cue: When candidate says he/she will initiate a PID and DER, inform them that it will be done by another operator.**

Performance Step: 4 Refer to Tech Spec section 3.7.9
Standard: Determines no action required as long as all other Service Water pumps are operable.

Pump may be placed on Non-Essential header, where 2 out of 3 are required

Terminating Cue: When the candidate has referred to Technical Specifications, the evaluation for this JPM is complete

Job Performance Measure No.: IP3 2003 NRC A2 SRO

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS:

The Plant is at 100% power. All equipment in service.

The Essential Service Water Header is 1, 2, 3

3PT-Q092A, 31 Service Water Pump Train Operational Test, was performed on your shift.

INITIATING CUE:

You have been directed by the Shift Manager to perform acceptance criteria review and approval per sections 6.0 and 7.0 of 3PT-Q092A

Facility:	Indian Point Unit 3	Task No.:	N/A
Task Title:	<u>ADMIN A3 SRO Questions</u>	JPM No.:	<u>2003 NRC A3 SRO</u>
K/A Reference:	2.3.2 (2.9) 2.3.4 (3.1)		

Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Simulated Performance:	_____	Actual Performance:	_____
Classroom	<u>X</u>	Simulator	_____
		Plant	_____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions:	N/A
Task Standard:	Two Questions answered at least 80% Correctly
Required Materials:	E-Plan
General References:	E-Plan OD-35
Handouts:	NONE
Initiating Cue:	N/A
Time Critical Task:	NO
Validation Time:	10 Minutes

ANSWER KEY**NRC SRO ADMIN A.3 QUESTION 1 (Reference allowed)**

You are the Shift Manager.

A Site Area Emergency has been declared at Indian Point.

Elevated radiation levels exist throughout the plant.

An EOP attachment will be performed by an NPO to perform local operator actions.

What are the restrictions on his allowable dose to perform this task?

ANSWER:

≤ 5 Rem TEDE if possible, (50%) with an extension to 10 Rem possible to protect property (50%)

REFERENCE:

E-Plan Part 2 section K

ANSWER KEY**NRC SRO ADMIN A.3 QUESTION 2 (CLOSED Reference)**

You are the Shift Manager.

A normally locked manual isolation valve in the Excess Letdown Heat Exchanger discharge line in a High Radiation Area was repositioned by an operator that received 65 millirem.

Concurrent verification of valve position was NOT performed. The valve requires independent verification of its new position.

What are the requirements for independently verifying the position of this valve? Explain your answer.

ANSWER:

The Shift Manager may waive requirements for Independent Verification of this valve. (40%)

Alternate verification techniques may be used. (40%)

- Remote position indicators (5%)
- Use of process parameters (flow, pressure) (5%)
- Valve stem observation (5%)
- Functional mechanical position indicators (5%)

REFERENCE:

OD-35 Sections 4.1.10 and 4.3.5

NRC SRO ADMIN QUESTION 1**(Open Reference)**

You are the Shift Manager.

A Site Area Emergency has been declared at Indian Point.

Elevated radiation levels exist throughout the plant.

An EOP attachment will be performed by an NPO to perform local operator actions.

What are the restrictions on his allowable dose to perform this task?

NRC SRO ADMIN QUESTION 2**(Closed Reference)**

You are the Shift Manager.

A normally locked manual isolation valve in the Excess Letdown Heat Exchanger discharge line in a High Radiation Area was repositioned by an operator that received 65 millirem.

Concurrent verification of valve position was NOT performed. The valve requires independent verification of its new position.

What are the requirements for independently verifying the position of this valve? Explain your answer.

Job Performance Measure No.: IP3 SRO ADMIN A3 QUESTIONS

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Perform Event Classification JPM No.: 2003 NRC A4 SRO S1
K/A Reference: 2.4.41 (4.1)

Examinee: NRC Examiner:
Facility Evaluator: Date:
Method of testing:
Simulated Performance: _____ Actual Performance: X
Classroom _____ Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: An event has occurred requiring Emergency classification
Task Standard: Classification is correctly made for the event completed
Required Materials: Event Classification Guide
General References: Event Classification Guide
Handouts: Event Classification Guide
Initiating Cue: Classify the event just completed
Time Critical Task: YES
Validation Time: 15 Minutes

(Denote Critical Steps with an asterisk)

* **Performance Step: 1** Classify the Event in accordance with the event classification guide

Standard: This event is classified as a SITE AREA EMERGENCY, criteria 1.3.1

Comment:

Terminating Cue: When event classification has been made, the evaluation for this JPM is complete

Job Performance Measure No.: 2003 NRC A4 SRO S1

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: An event has occurred requiring Emergency classification

INITIATING CUE: Classify the event just completed

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Perform Event Classification JPM No.: 2003 NRC A4 SRO S2
K/A Reference: 2.4.41 (4.1)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom _____ Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: An event has occurred requiring Emergency classification

Task Standard: Classification is correctly made for the event completed

Required Materials: Event Classification Guide

General References: Event Classification Guide

Handouts: Event Classification Guide

Initiating Cue: Classify the event just completed

Time Critical Task: YES

Validation Time: 15 Minutes

(Denote Critical Steps with an asterisk)

- * **Performance Step: 1** Classify the Event in accordance with the event classification guide
- Standard:** There is NO classification required for this Event. The candidate MAY classify NUE based upon Shift Manager's opinion
- Comment:**
-
- Terminating Cue:** When event classification has been made, the evaluation for this JPM is complete

Job Performance Measure No.: 2003 NRC A4 SRO S2

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: An event has occurred requiring Emergency classification

INITIATING CUE: Classify the event just completed

Facility: Indian Point Unit 3 Task No.: N/A
Task Title: Perform Event Classification JPM No.: 2003 NRC A4 SRO S3
K/A Reference: 2.4.41 (4.1)

Examinee: NRC Examiner:

Facility Evaluator: Date:

Method of testing:

Simulated Performance: _____ Actual Performance: X
Classroom _____ Simulator _____ Plant _____

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

Initial Conditions: An event has occurred requiring Emergency classification

Task Standard: Classification is correctly made for the event completed

Required Materials: Event Classification Guide

General References: Event Classification Guide

Handouts: Event Classification Guide

Initiating Cue: Classify the event just completed

Time Critical Task: YES

Validation Time: 15 Minutes

(Denote Critical Steps with an asterisk)

* **Performance Step: 1** Classify the Event in accordance with the event classification guide

Standard: IF Entry to ECA-0.0. was LESS than 15 minutes, there is NO classification for this event

If entry to ECA-0.0 lasted LONGER than 15 minutes, the classification is a SITE AREA EMERGENCY, Criteria 6.1.4

Comment:

Terminating Cue: When event classification has been made, the evaluation for this JPM is complete

Job Performance Measure No.: 2003 NRC A4 SRO S3

Examinee's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

Question Documentation:

Question:

Response:

Result: SAT _____ UNSAT _____

Examiner's Signature: _____ Date: _____

INITIAL CONDITIONS: An event has occurred requiring Emergency classification

INITIATING CUE: Classify the event just completed